SPYWOLF

Security Audit Report

VANISH

Completed on
July 25, 2023

OVERVIEW

This audit has been prepared for **Vanish** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

"

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

"

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Vanish

PROJECT DESCRIPTION

According to their whitepaper:

The Vanish Transfer System (VTS) breaks Ethereum's Blockchain informational link between the source wallet and destination wallet when sending ERC-20 assets. This serves to provide anonymity to our users who desire to navigate the crypto space with full privacy. You're just one transaction away… why not? leave without a trace.

Release Date: Presale starts in July, 2023
Category: Token

01

CONTRACT INFO

Token Name
Vanish

Symbol
$Vanish

Contract Address
0x6f4Dde2dDF242a3B10CD3C50D0aD0FBF5dDf996B

Network
Ethereum

Language
Solidity

Deployment Date
Jun 30, 2023

Verified?
Yes

Total Supply
1,000,000,000

Status
Not launched

TAXES

Buy Tax
none

Sell Tax
none

*Taxes can be changed in future.

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

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TOKEN TRANSFERS STATS

Transfer Count	183
Uniq Senders	4
Uniq Receivers	173
Total Amount	3641251585.9999995 $Vanish
Median Transfer Amount	3199999.9999999995 $Vanish
Average Transfer Amount	19897549.650273222 $Vanish
First transfer date	2023-06-30
Last transfer date	2023-07-21
Days token transferred	8

SMART CONTRACT STATS

Calls Count	65
External calls	65
Internal calls	0
Transactions count	65
Uniq Callers	3
Days contract called	3
Last transaction time	2023-07-21 20:09:11 UTC
Created	2023-07-18 18:00:59 UTC
Create TX	0xa06aa7626e4c1e509e935c66272523b6ffed0f7490f6da172a23f5c8fbd517f9
Creator	0xd2f06b0f16925fd9bda60da1b004edfc9588db49

03

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

05

FOUND THREATS

⚠️ Medium Risk

If there are enough tokens accumulated for auto swap and auto swap is enabled and taxes are set to 0, totalETHFee's value will become zero (0) and contract will halt on sell.
Division by zero (0) is impossible.

```solidity
function _transfer(address sender, address recipient, uint256 amount) private returns (bool) {
...................................
uint256 contractTokenBalance = balanceOf(address(this));
bool overMinimumTokenBalance = contractTokenBalance >= minimumTokensBeforeSwap;

if (overMinimumTokenBalance && !inSwapAndLiquify && !isMarketPair[sender] && swapAndLiquifyEnabled)
{
    if(swapAndLiquifyByLimitOnly)
        contractTokenBalance = minimumTokensBeforeSwap;
    swapAndLiquify(contractTokenBalance);
}
...................................
}


function swapAndLiquify(uint256 tAmount) private lockTheSwap {
...................................
    uint256 totalShares = _totalTaxIfBuying.add(_totalTaxIfSelling);
    uint256 totalETHFee = totalShares.sub(liquidityShare.div(2));

    uint256 amountETHLiquidity = recievedBalance.mul(liquidityShare).div(totalETHFee).div(2);
    uint256 amountETHMarketing = recievedBalance.mul(MarketingShare).div(totalETHFee);
    uint256 amountETHDeveloper = recievedBalance.sub(amountETHLiquidity).sub(amountETHMarketing);
...................................
}
```

- Recommendation:
  - Ensure that division by zero (0) won't occur

FOUND THREATS

⚠️ Low Risk

Owner can change current router.
If set to inappropriate router, contract might halt on sell.

```solidity
function changeRouterVersion(address newRouterAddress) public onlyOwner returns(address newPairAddress) {

    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(newRouterAddress);

    newPairAddress = IUniswapV2Factory(_uniswapV2Router.factory()).getPair(address(this), _uniswapV2Router.WETH());

    if(newPairAddress == address(0)) //Create If Doesnt exist
    {
        newPairAddress = IUniswapV2Factory(_uniswapV2Router.factory())
            .createPair(address(this), _uniswapV2Router.WETH());
    }

    uniswapPair = newPairAddress; //Set new pair address
    uniswapV2Router = _uniswapV2Router; //Set new router address

    isMarketPair[address(uniswapPair)] = true;
}
```

- Recommendation:
  - Router change is not recommended after token's launch.

06-B

ℹ️ Informational

Owner can withdraw any tokens from the contract except the native $Vanish token.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```solidity
function rescueStuckToken(address _token, uint _amount) external onlyOwner {
    require(_token != address(this), "Owner can't claim contract's balance of its own tokens");
    IERC20(_token).transfer(msg.sender,_amount);
}

function rescueFunds() external onlyOwner {
    (bool os,) = payable(msg.sender).call{value: address(this).balance}("");
    require(os);
}
```

Owner can set buy/sell fees up to 12.5%.

Combined buy+sell = 25%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```solidity
function setBuyTaxes(uint _Liquidity, uint _Marketing , uint _Developer) public onlyOwner {
    _buyLiquidityFee = _Liquidity;
    _buyMarketingFee = _Marketing;
    _buyDeveloperFee = _Developer;
    _totalTaxIfBuying = _buyLiquidityFee.add(_buyMarketingFee).add(_buyDeveloperFee);
    require(_totalTaxIfBuying <= (feeUnits/8), "Buy fees must be 12.5% or less");
}

function setSellTaxes(uint _Liquidity, uint _Marketing , uint _Developer) public onlyOwner {
    _sellLiquidityFee = _Liquidity;
    _sellMarketingFee = _Marketing;
    _sellDeveloperFee = _Developer;
    _totalTaxIfSelling = _sellLiquidityFee.add(_sellMarketingFee).add(_sellDeveloperFee);
    require(_totalTaxIfSelling <= (feeUnits/8), "Sell fees must be 12.5% or less");
}
```

06-C

ⓘ Informational

Owner can exclude address from fees.
When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setIsExcludedFromFee(address account, bool newValue) public onlyOwner {
    isExcludedFromFee[account] = newValue;
}
```

Owner can exclude address from max transaction and max wallet limit.

```
function setIsTxLimitExempt(address holder, bool exempt) external onlyOwner {
    isTxLimitExempt[holder] = exempt;
}

function setIsWalletLimitExempt(address holder, bool exempt) external onlyOwner {
    isWalletLimitExempt[holder] = exempt;
}
```

Owner can set max transaction limit but cannot lower it than 0.1% of total supply.

```
function setMaxTxAmount(uint256 maxTxAmount) external onlyOwner() {
    require(maxTxAmount >= _totalSupply.mul(1).div(1000),
    "Cannot set max TX amount lower than 0,1% of total supply");
    _maxTxAmount = maxTxAmount;
}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1 Consider fundamental tradeoffs

2 Be attentive to blockchain properties

3 Ensure careful rollouts

4 Keep contracts simple

5 Stay up to date and track development

Vanish

GOOD PRACTICES FOUND

✔ The owner cannot mint new tokens after deployment

✔ The owner can set a transaction limit, but can't lower it than 0.1% of total supply

✔ The smart contract utilizes "SafeMath" to prevent overflows

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There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.

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Website URL
https://vanisheth.com/

Domain Registry
https://www.godaddy.com

Domain Expiration
2024-06-19

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Very nice design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
No

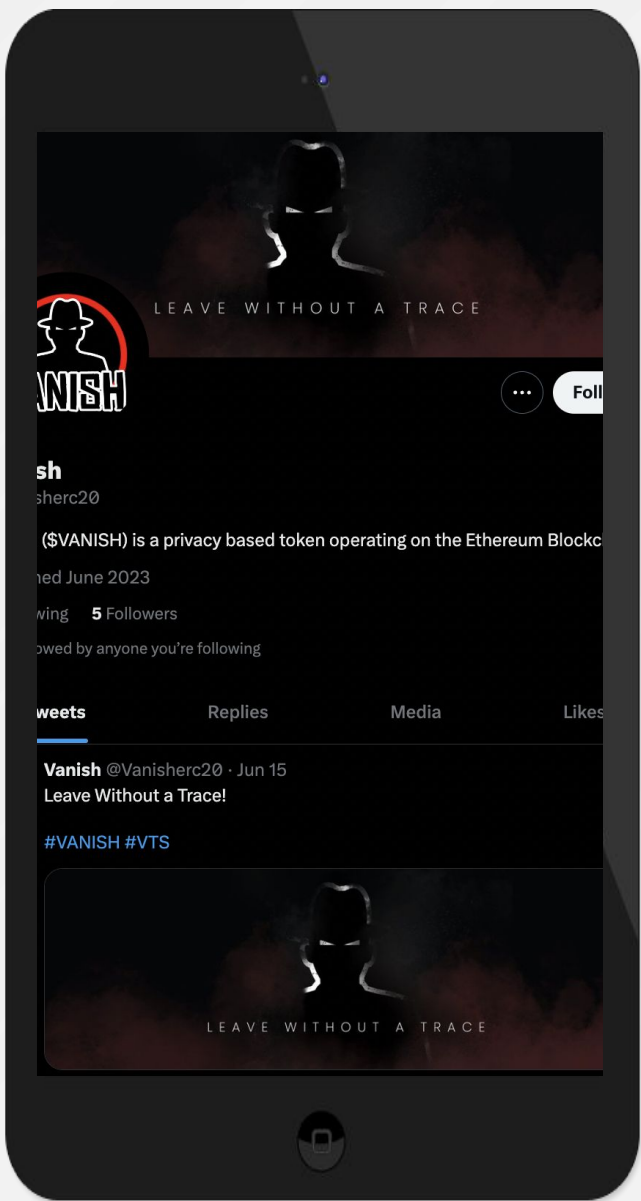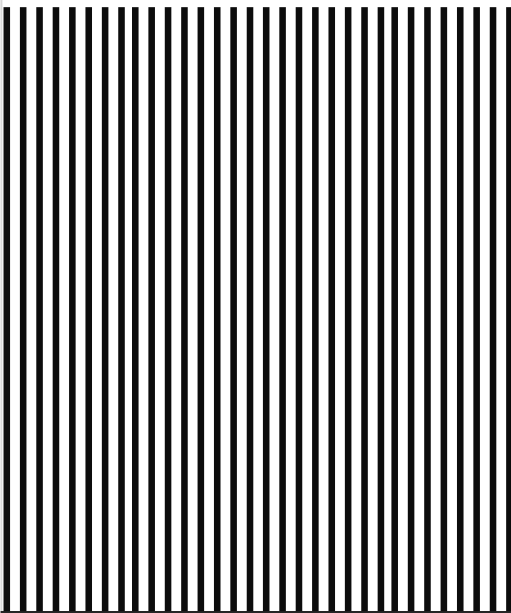## Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes

FEATURES   ECOSYSTEM   ROADMAP   PARTNERS   VTS   STAKE

JOIN OUR TELEGRAM

VANISH

✦ WELCOME TO VANISH

LEAVE WITHOUT A TRACE

Vanish ($Vanish) is a privacy focused token that operates on the Ethereum Blockchain. Vanish represents decentralization and privacy, with this as our focus we've created the Vanish Transfer System (VTS) to provide anonymity to users across the Ethereum Blockchain.

Contract 0x6f4Dde2dDF242a3B10CD3C50D0aD0FBF5dDf996B

vanisheth.com

SOCIAL MEDIA
& ONLINE PRESENCE

ANALYSIS
Project's social media pages are new

Twitter

@vanisherc20

- 5 followers
- 1 total post
- New account

Discord

- Not available

Telegram

@Vanish_Portal

- 28 members
- Few active members

Medium

- Not available

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SPYWOLF
CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.